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Atomistic simulation of MEMS resonators through the coupling of length scales - group of 2 »

RE Rudd, JQ Broughton - J. Modeling and Simulation of Microsystems, 1999 - cr.org
... the multiscale decomposition for the micro- **gear train**. ... 3: Illustration of dynamic **simulation** zone and ... fundamental flexural mode of **oscillation**, and released. ...
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Experimental verification of a command shaping boom crane controlsystem - group of 3 »

GG Parker, K Groom, JE Hurtado, J Feddema, RD ... - American Control Conference, 1999. Proceedings of the 1999, 1999 - [ieeexplore.ieee.org](#)
... to be the slew axis **gear train**, and is ... only addresses the source of payload **oscillation**. attributed to ... under investigation both in **simulation** and experimental ...
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On Modeling, Identification, and Control of a Heavy-Duty Electrohydraulic Harvester Manipulator - group of 3 »

E Papadopoulos, B Mu, R Frenette - IEEE/ASME TRANSACTIONS ON MECHATRONICS, 2003 - [ieeexplore.ieee.org](#)
... servo-control applications in a **simulation** or a ... where is the line-**oscillation frequency** observed (about 3 Hz ... into the damping of the **gear train** connected to its ...
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Coupling of length scales and atomistic simulation of MEMS devices - group of 2 »

RE Rudd, JQ Broughton - Proc. MSM - [coewww.rutgers.edu](#)
... there are clear departures from a sinusoidal **oscillation**. ... what speed can we run a **gear train** before entanglement ... SAMs and also the envisaged **simulation** of SAM ...
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A kiln drive vibration problem and solution

SE Ehinger, H Inc, TX Clarksville - Cement Industry Technical Conference, 1993. Record of ..., 1993 - [ieeexplore.ieee.org](#)
... the damage that had taken place in the **gear train**. ... a detailed analytical study and **simulation** of the ... verify the actual source of the low **frequency oscillation**. ...
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Modeling and identification of an electrohydraulic articulated forestry machine - group of 4 »

E Papadopoulos, B Mu, R Frenette - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - [ieeexplore.ieee.org](#)
... and use in a graphical training **simulator** [2]. Mathematical ... Therefore, iff is the **frequency of oscillation**, and 1 ... the damp- ing of the **gear train** connected to ...
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Motor characteristics in the control of a compliant load - group of 4 »

EG Harokopos, RW Mayne - Journal of Guidance, Control, and Dynamics, 1986 - [pdf.aiaa.org](#)

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The additional mass of bodies oscillating in shallow water

PG Avramenko - International Applied Mechanics, 1967 - Springer

... is not developed enough to permit **simulation** of wave ... 6, flywheel 7, reducing **gear train** 8, electric ... The actual **oscillation frequency** range employed was 1.2-18 ...

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Ultra-maneuverable steering control algorithms for terrain transitions - group of 6 »

MW Torrie, R Koch, V Bahl, D Cripps - Proceedings of SPIE- The International society for optical ..., 1999 - autonomoussolutions.com

... **gear train** ... The discrete **simulation** of the PQFT remained stable in the large, but exhibited a small angular ... Reducing the system gain eliminated the **oscillation**. ...

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Reducing the effect of load torque disturbances in dual inertia systems with lost motion

P Schmidt, T Rehm - American Control Conference, 2004. Proceedings of the 2004 - [ieeexplore.ieee.org](#)

... Instead, the **simulation** insured Page 3 1.2 that ... a printing press operation where high **frequency** disturbances are ... The graph shows a slight **oscillation** caused by ...

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On the Modeling and Control of an Experimental Harvester Machine Manipulator - group of 3 »

E Papadopoulos, R Frenette, B Mu, Y Gonthier - IEEE/RSJ Int. Conf. on Intell. Robots and Sys, 1997 - [users.ntua.gr](#)

... a requirement for control and graphical **simulator** design [3 ... f is the line fundamental **frequency** of **oscillation**, l is its ... is D m , N is the **gear train** gear ratio ...

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[book] Structural Flexibility of the Shuttle Remote Manipulator System Mechanical Arm - group of 3 »

PK Nguyen - 1982 - [pdf.aiaa.org](#)

... present- ing part of the math modelling, analysis and **simulation** results mentioned ... and a roller bearing, and carries the G-2 out- put **gear train**. ... **Frequency** (Hz ...

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Senior Control Systems Laboratory at Purdue University

DE Lyon, PH Mecki, ODI Nwokah - [ieeexplore.ieee.org](#)

... Thus, the **simulation** performs much like a "real" system ... settling time or the **frequency** of **oscillation** of a ... The presence of the **gear train** and some bearing ...

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Command shaping boom crane control system with nonlinear inputs

GG Parker, K Groom, J Hurtado, RD Robinett, F ... - Control Applications, 1999. Proceedings of the 1999 IEEE ..., 1999 - [ieeexplore.ieee.org](#)

... pendulation using an operator iu- the-loop **simulation**. ... kinematics and the primary payload **oscillation** Characteristics are ... be the slew axis **gear train**, and is ...

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W Seattle - pdf.aiaa.org

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[Liquid propellant missile longitudinal oscillation](#)

RH Fashbaugh - 1966 - deepblue.lib.umich.edu

... mass of the pump rotor, **gear train**, and turbine ... Proper **simulation** of the missile system is important ... the orifice outlet pressure **oscillation** amplitude versus ...

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[Dynamic simulation of wheel-rail interaction for locomotivetraction studies](#)

S Senini, F Flinders, W Oghanna - Railroad Conference, 1993., Proceedings of the 1993 IEEE/ ..., 1993 - ieeexplore.ieee.org

... the motors, Simulations were performed on the dynamic systems **simulator**, "SIMULINK" and ... by the motor is transferred through the **gear train** and eventually ...

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SLIDING MODE CONTROL OF A FLEXIBLE MANIPULATOR WITH COULOMB FRICTION - group of 2 »

AL Crassidis - AIAA Guidance, Navigation and Control Conference, Baltimore, ..., 1995 - pdf.aiaa.org

... Persistent **oscillations** of the beam tip occur at the **frequency** of the ... The Coulomb friction **simulation** captures this behavior rather well as shown in ...

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Survey of nonlinear vibration of gear transmission systems - group of 2 »

J Wang, R Li, X Peng - Applied Mechanics Reviews, 2003 - link.aip.org

... RC and Crossley FRE (1977), Digital **simulation** of impact ... and Mook DT (1979), Nonlinear **Oscillations**, John Wiley ... stability of a two-stage **gear train** under the ...

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Development and Implementation of Compliant Controller On Manus Robot Arm

AR Konuk - student.utwente.nl

... **Simulation**45 7.7 ... output side of a **gear train** is ...

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A three-state clutch servomechanism for an underwater control surface. - group of 2 »

CR Tegnalia - 1968 - dspace.mit.edu

... a spring-mass filter and a **gear train**, both of ... above all, steady-state **oscillations** are eliminated ... results of the analysis and **simulation** studies certainly ...

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On-hardware optimization of stepper-motor system dynamics - group of 2 »

JR Rogers, K Craig - Mechatronics, 2005 - Elsevier

... optimizing these sequences based on **simulation** of the ... Slamming and **oscillation** are almost always undesirable ... removing backlash from a **gear train** will result in ...

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Telerobotic response requirements

TL Brooks, STX Robotics, MD Lanham - Systems, Man and Cybernetics, 1990. Conference Proceedings., ..., 1990 - ieeexplore.ieee.org

... loop may be closed to alleviate nonlinear effects of the **gear train** and actuator ...

Another advantage is that the higher-**frequency** force components can be sensed ...

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Controlling mechanical systems with backlash—a survey - group of 3 »

M Nordin, PO Gutman - Automatica, 2002 - Elsevier

... regulator dynam- ics, so that arbitrary open-loop cross-over **frequency** is not ... Note that the measured motor speed amplitude of the **oscillations** may be very ...

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Development of 3D-input device using adaptive control - group of 2 »

H Yokoi, J Yamashita, Y Fukui, M Shimojo - Neural Networks, 1995. Proceedings., IEEE International ..., 1995 - ieeexplore.ieee.org

... manipulator is accelerated through a **gear train** by a ... output based on the **oscillation** input, obtaining ... assumptions presented above, computer **simulation** shows a ...
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Control of low velocity friction and gear backlash in a machine tool feed drive system
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K Menon, K Krishnamurthy - *Mechatronics*, 1999 - Elsevier
... in position and limit cycle **oscillations** around the ... But the **simulation** results presented showed that the ... lead screw transmission system through a **gear train**. ...
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Application of the wavelet transform in machine condition monitoring and fault diagnostics: a review ... - [group of 6](#) »

ZK Peng, FL Chu - *Mechanical Systems and Signal Processing*, 2004 - Elsevier
... systems [18, 19 and 20], planetary **gear train** [21 and ... 2. A **simulation** signal (a) and its wavelet ... wavelet packet algorithm into free-**oscillation** testing method ...
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